

BEST AVAILABLE COPY

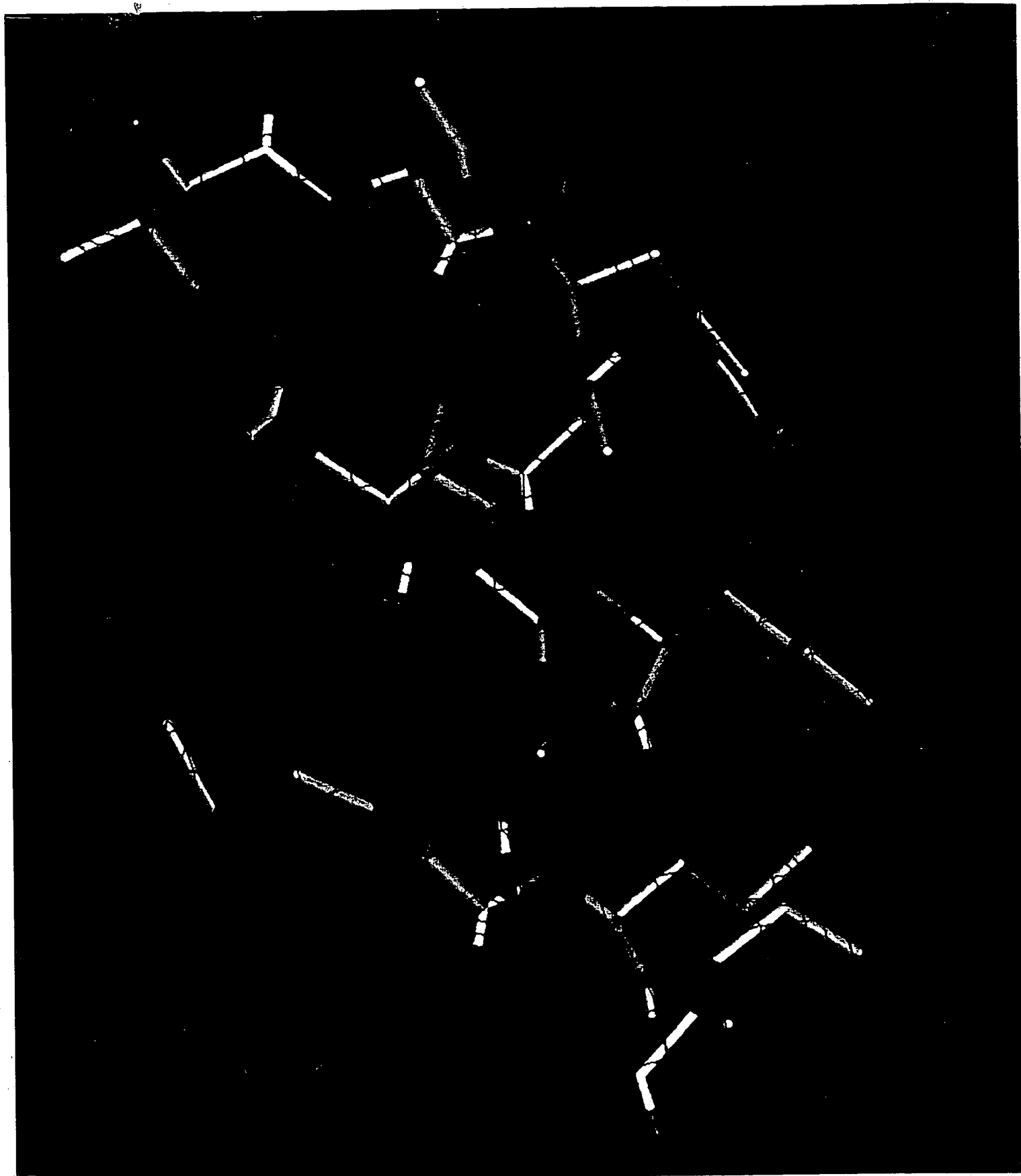
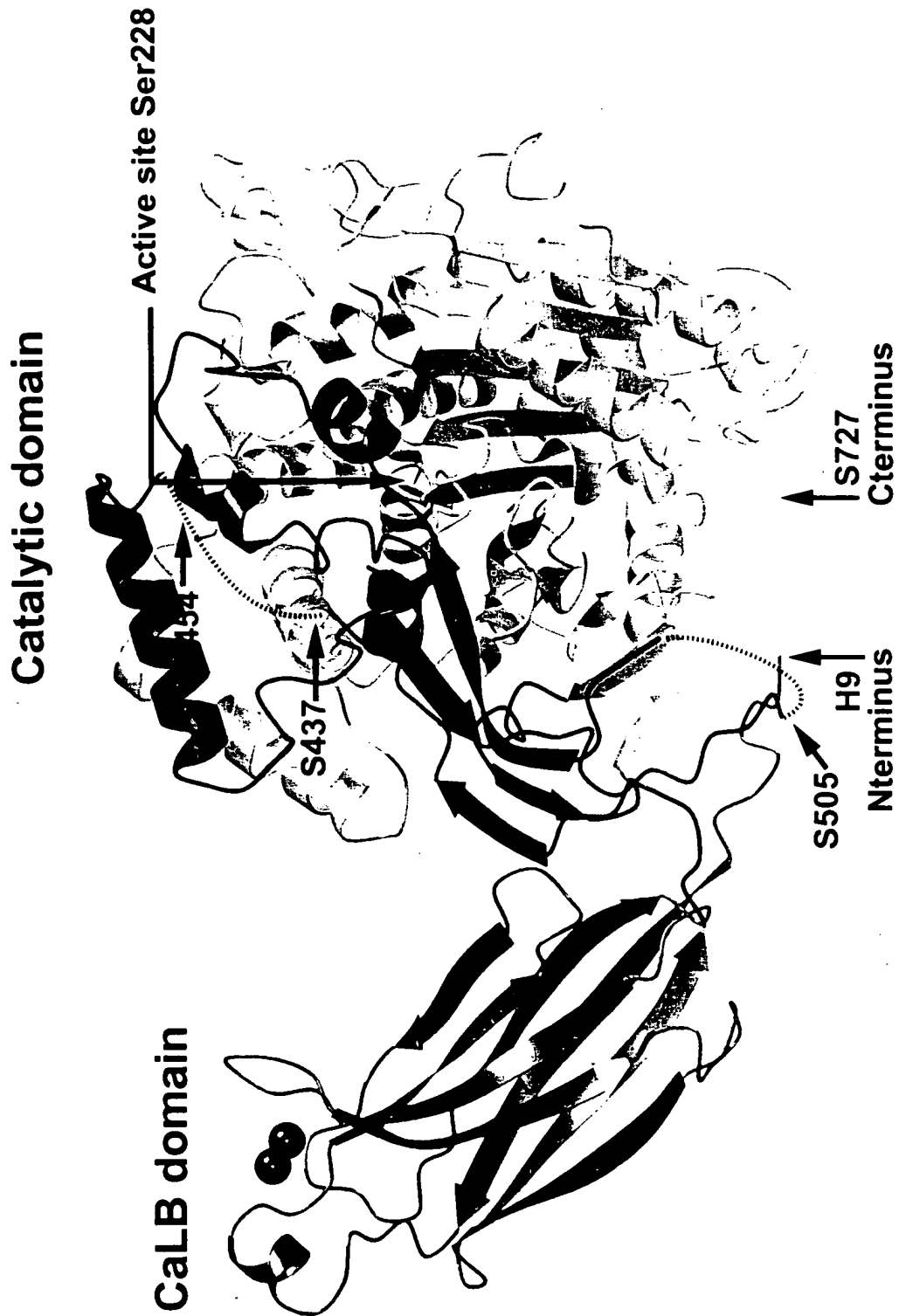


FIG. 1

NOT AVAILABLE COPY



Ca binding
cleft

active site

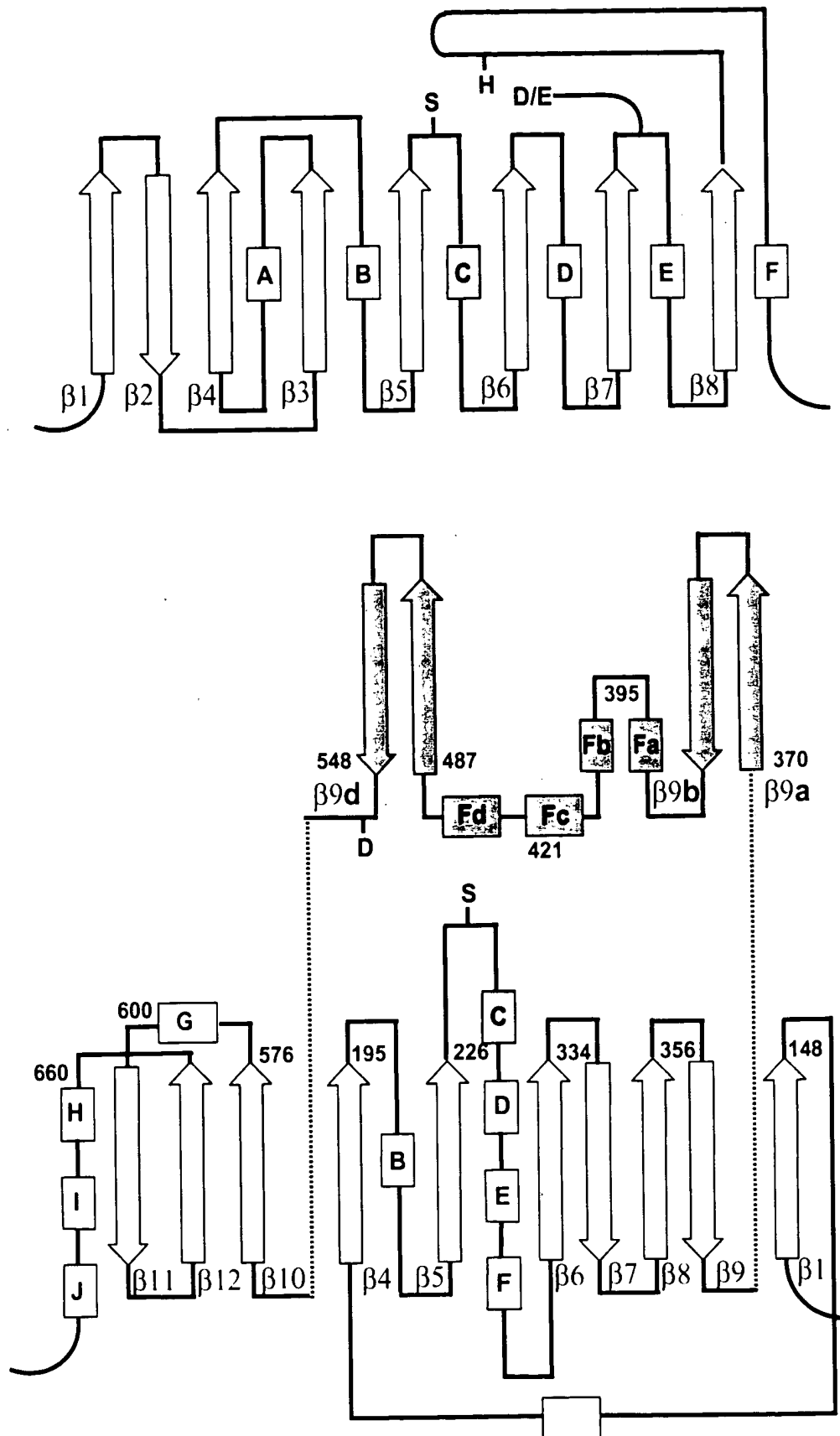
active site

Nterminus

Cterminus

09250083.021599

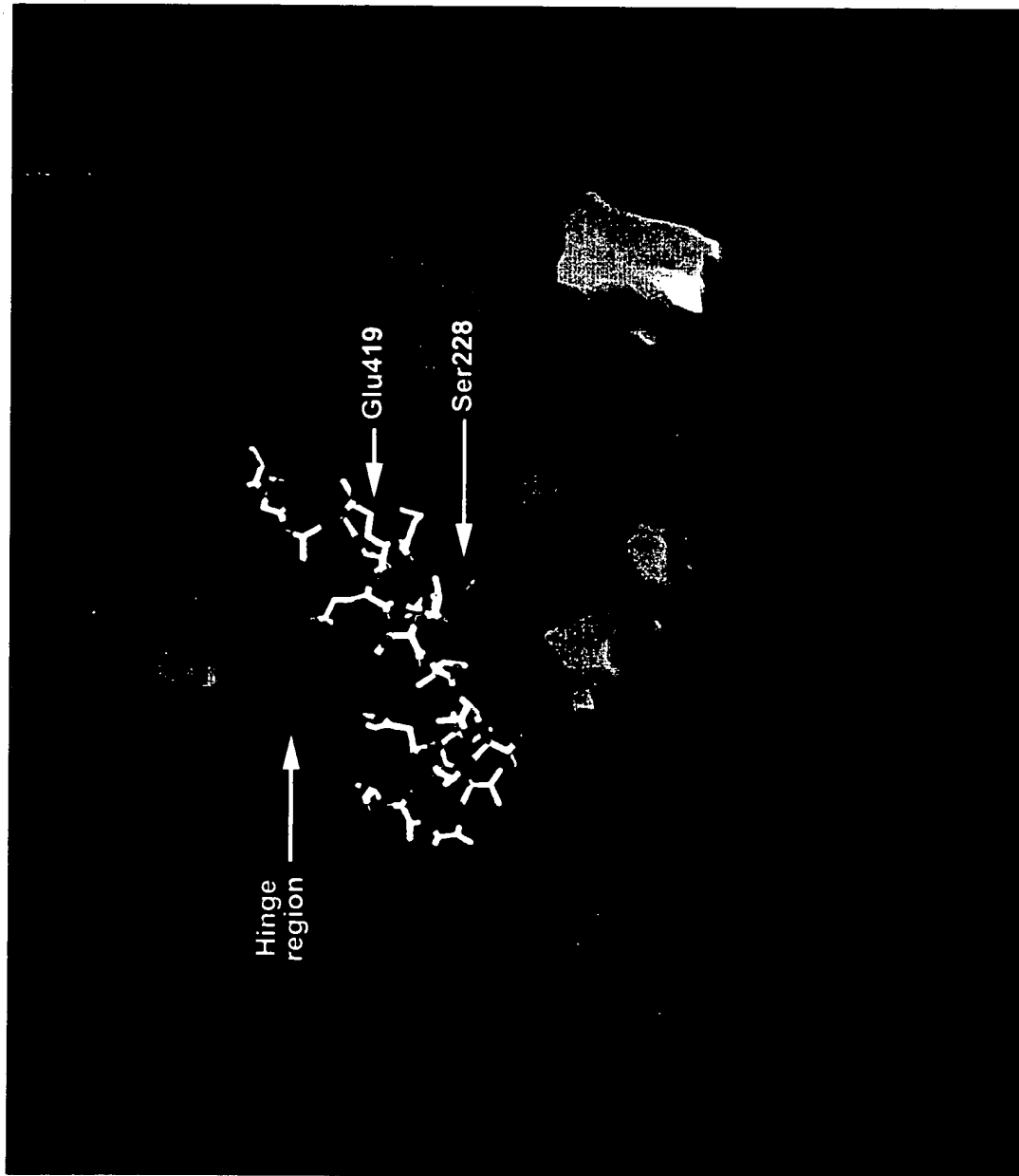
665720-2809260



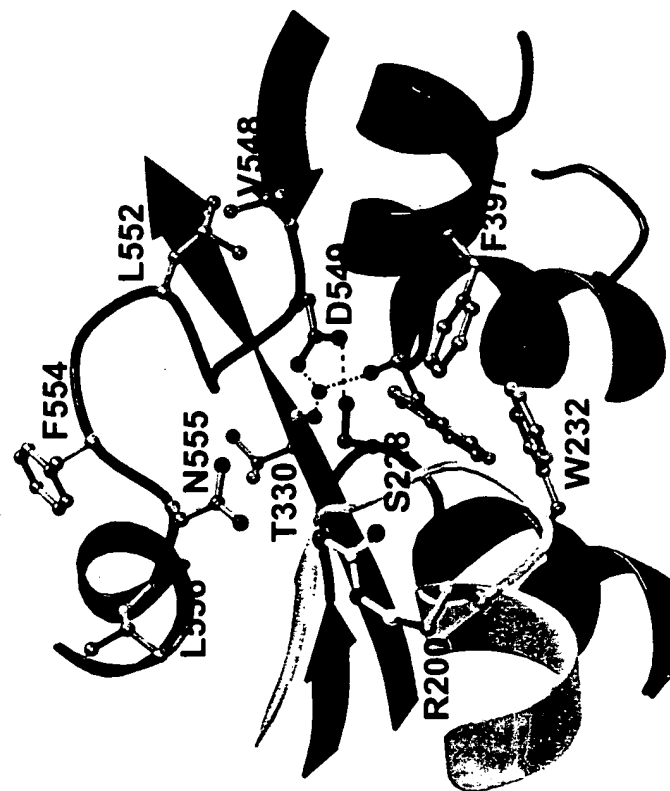
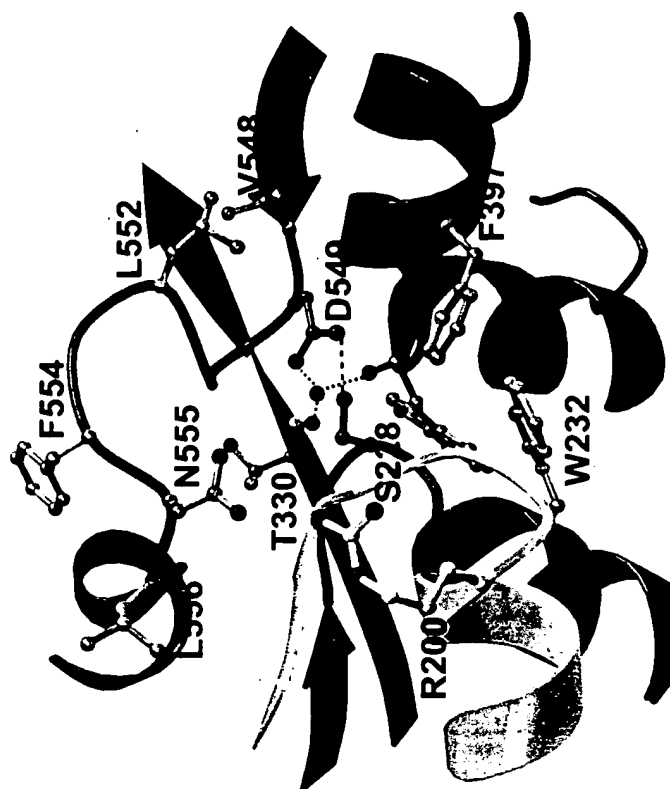
beta 480 IRELAVRIGFGPCAEEQAFSRRKQVVAALQALQDGLQED---PVVATLYGGG
 gamma 1 NGSSVSTIPGLQKEEKAAERRLHVLRKALKKLIEADLQPP-----VVCGLGSGGG
 alpha 139 CSCPDYRFSMALCDQEKTRQQRKEHRESKKLLGPKNSEGLHSARVFPVAILGSGGG
 ----- α ----- $\beta 4$ -----
 beta 537 IRLMTSLYGQIACLKEGLGLDCVBYTGASGSTWAAANLYEDPISOKDIAQPTLLKTK
 gamma 53 IRAHITCLGVLSSEKEQGLLDVITYAGVSGSTWALSLEYIN-----IGDEYDEADLKHR
 alpha 199 FRAMVCFSGVKALYESGRLDCATYVAGVSGSTWYLSLEYHPDPKGPETNEIMKE
 ----- αB ----- $\beta 5$ ----- αC ----- αD -----
 beta 597 VTANKIGYLAESQIORYROELAEKARLGYPSCFTNWAANEALHDEPHHKLSDOREA
 gamma 109 FTH-----QEWDLASTOKTIQAARS-ENYLTDFWAYINISKQTRLEPIHLSNKKP
 alpha 259 VCHNPILITPQKIKRYVESLWKIKSSGQPVFTDGGGGETIHNRMNITLSSTKEK
 ----- αE ----- αF -----
 beta 657 ISHGONPLPICALNTKGQS--LTFEEWCEFSPEYGFPKYGAFPSLFGSEFFMG
 gamma 162 VEEGTLPPPIFAAEDNDLQPSWQEARAPETWFEFPHHAGESALGAFSITHFGSKFKKG
 alpha 319 VNTAQCPPLPETCLHVKPDV---ELMFVWEFSPEYGMAYGTAPLFGSKFFMG
 ----- $\beta 6$ ----- $\beta 7$ ----- $\beta 8$ ----- $\beta 9$ ----- $\beta 9a$ -----
 beta 715 QLKALPESRCFLEGWNSLYANLQDSLYWASEP-----SQFWDRWRNQANQKQV
 gamma 222 RLVEITHPERDLTELRGLWGSALGNTVEIREYFDQLRNLLKGLWRAVANAKSGHLIF
 alpha 376 TWKRYEENPIHFLMGWGSASILFRVLGSGSQRGTMEEELENTTKHISNASS
 ----- $\beta 9b$ ----- $\beta 10$ ----- $\beta 11$ ----- $\beta 12$ -----
 beta 770 P-GLKLE-----PPSTAG---RIAEFFTDLLWR-----PLAQQA
 gamma 282 ARLRITQESSQGEHPPEDEGGPEHTLIMLENWTR-----ISLEKQEQ
 alpha 436 DSDDESHE-----PKGTENEAGSDYQINQAEWIHRMIMALVSDSALFNIREGRAGK
 ----- $\beta 13$ ----- $\beta 14$ ----- $\beta 15$ ----- $\beta 16$ ----- $\beta 17$ ----- $\beta 18$ -----
 beta 801 THN---FIRGLHFHKDYFOHE-----HFSTWKATT---LGLPNOITPSEPHI
 gamma 328 PHEDPERKGSISNLMDIVKKTG-----ICASKWENGTHNFLYKHGGIRIKMSSRKHL
 alpha 489 VHN---FNLGLNLNTSYPLSLSDFATQDSFDDDELDAVADPDEFRIYPLDVKSKKT
 ----- $\beta 19$ ----- $\beta 20$ ----- $\beta 21$ ----- $\beta 22$ ----- $\beta 23$ ----- $\beta 24$ -----
 beta 843 CLLDVGYLINTSCLPILOPTRVDLILSLDNLHG-----AFQQLQILGRVCOEGGIPFP
 gamma 382 HLVDAGLAINTPPIVLPPTRVHLILSDFDSAGD-----PETTRATTDYCRHKIPFP
 alpha 546 HVVDSGLTFNLPLPLLRPORGVDLIRSEDFESARPSDSSPPEKELLAEKAMMKPFP
 ----- $\beta 25$ ----- $\beta 26$ ----- $\beta 27$ ----- $\beta 28$ ----- $\beta 29$ ----- $\beta 30$ -----
 beta 898 FLSSEPE--EQLOPRECHTESDPTCPGA---PAVHFPLVSDSFRFYSAPGVRRTPEEAY
 gamma 437 QVTEAELDLWSKAPASCYLRGETG-----PVVHFPLFN-----IDACCG
 alpha 606 KIDPVVFD--REGLQCYVEKPKNPDMEKDCPTTIHEVLANINERKKYKAGVPRETEEEK
 ----- $\beta 31$ ----- $\beta 32$ ----- $\beta 33$ ----- $\beta 34$ ----- $\beta 35$ ----- $\beta 36$ -----
 beta 953 AGEVNLSLSDSP--HYTKVYSDVDVGLHHTHNVNVCNNOQLLEALRQAMQRRROR
 gamma 478 QLEASDLYDT---FKLADYLVVVLALAKKNVRENKKKILRELQVAGLYYPKD
 alpha 664 IADIDIFDDPESPSTFNFOYPAQAFKCHDLMHNTLNNIVIKKAYESTERYRONP
 ----- $\beta 37$ ----- $\beta 38$ ----- $\beta 39$ ----- $\beta 40$ ----- $\beta 41$ ----- $\beta 42$ -----
 beta 1011 PH-----
 gamma 534 SARSCCTA-----
 alpha 724 SRCSVSLSNVEARRFFNKEFLSKPKA
 ----- α ----- α -----

BEST AVAILABLE COPY

BEST AVAILABLE COPY



655720" E8003260



BEST AVAILABLE COPY

